

# Counting Cell Cultures

Before starting ensure that the hemocytometer and its coverslip are clean by removing any dust particles with lens paper. Then, place the pipette tip with your sample into one of the V-shaped wells, and gently expel 20  $\mu\text{L}$  of the sample. The loaded hemacytometer is then placed on the microscope stage and the counting grid is brought into focus at low power (400X magnification). Count the four corners (4\*4) of the (16\*16) grid. Find the average count in a 4\*4 grid. Divide the average count in a 4\*4 grid by 0.00025. This is your cell concentration.